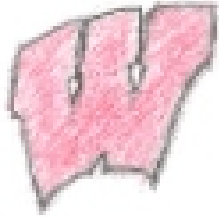


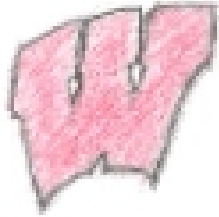
Last Time

- Filtering
 - Box filter
 - Bartlett filter
 - Gaussian Filter
 - Edge-detect (high-pass) filter
 - Enhancement filters
- Resampling
 - Map the point from the new image back into the old image
 - Locally reconstruct the function using a filter
 - Today we'll see why this is the right thing to do



Today

- Ideal reconstruction and aliasing
- Compositing



Ideal Reconstruction

- When you display an image, ideally you would like to reconstruct the original (ideal) picture
- When you resample, you would like to draw new samples from the perfect original function
- Last time we saw you generally can't do this because you need infinitely dense samples to reconstruct sharp edges
- What's the math?